

U.S.C.G. Merchant Marine Exam

First Class Pilot

Q372 Chart 12354TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. The luminous range of a light takes into account which factor?

- (A) The existing visibility conditions
- (B) The elevation of the light
- (C) The observer's height of eye
- (D) The glare from background lighting

If choice A is selected set score to 1.

2. The following questions should be answered using Chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications.

You are turning for 12.7 knots.
Your vessel's deep draft is 16 feet.
Gyro error is 2°W.
Use 14°W for variation where required.

DEVIATION TABLE

Magnetic Heading	Deviation
045°	3.0°E
060°	3.0°E
075°	1.5°E
090°	0.5°W

At 2127 you take the following round of bearings:
Old Field Point Light 224.0°pgc
Middle Ground Light 320.5°pgc
Stratford Point Light 348.0°pgc

Based on the above fix, which statement is TRUE?

- (A) You are south of Mt. Misery Shoal.
- (B) At 2127, your fathometer reads about 17 fathoms.
- (C) You have lost sight of the red light at Old Field Point.
- (D) You will experience a 1 knot westward setting ebb current

If choice B is selected set score to 1.

3. At 2127 you are on course 076°T. What is your ETA at a position where Twenty Eight Foot Shoal Lighted Bell Buoy "TE" is abeam to port?

- (A) 2316
- (B) 2332
- (C) 2345
- (D) 2324

If choice B is selected set score to 1.

4. At 2200 Middle Ground Light is bearing 270°T at 9 nm.

Which statement is TRUE?

- (A) The set is towards the southwest.
- (B) The drift is 0.6 knot.
- (C) The vessel did not experience any set and drift.
- (D) You are being set to the left of the track.

If choice D is selected set score to 1.

5. You alter course to make good 076°T from your 2200 fix, and estimate you will make 13.6 knots over the ground. If the visibility is 5.5 miles, what is the earliest time you will sight Falkner Island Light? (nominal range 13 miles)

- (A) 2221
- (B) The light is visible at 2200
- (C) You will not sight the light
- (D) 2236

If choice D is selected set score to 1.

6. At 2214 you receive a "Securite" call requesting you to remain at least 2 miles away from underwater work taking place at LAT $41^{\circ}07.8'\text{N}$, LONG $72^{\circ}34.6'\text{W}$. If you change course at 2220 and allow 3° leeway for southerly winds which course will you steer per gyrocompass to comply with this request? No allowance made for current.

- (A) 089°pgc
- (B) 079°pgc
- (C) 086°pgc
- (D) 083°pgc

If choice A is selected set score to 1.

7. At 2236 Falkner Island Light bears 024°T at a range of 8.6 nm.

What was the speed made good along the track line since your 2200 fix?

- (A) 13.9 knots
- (B) 14.2 knots
- (C) 12.7 knots
- (D) 13.5 knots

If choice D is selected set score to 1.

8. At 2310 your position is LAT $41^{\circ}05.5'N$, LONG $72^{\circ}33.7'W$ and you change course to make good $068^{\circ}T$. A radar speed check using Twenty Eight Foot Shoal Buoy indicates your speed over the ground is 13.6 knots. At 2325 Horton Point Light bears $129^{\circ}T$. At 2341 the same light bears $194^{\circ}T$. What is the position of your 2341 running fix?

- (A) LAT $41^{\circ}08.3'N$, LONG $72^{\circ}25.8'W$
- (B) LAT $41^{\circ}08.8'N$, LONG $72^{\circ}25.2'W$
- (C) LAT $41^{\circ}08.5'N$, LONG $72^{\circ}25.6'W$
- (D) LAT $41^{\circ}07.9'N$, LONG $72^{\circ}25.9'W$

If choice C is selected set score to 1.

9. At 2342 the gyro alarm sounds and you commence steering by standard magnetic compass. If you allow 3° leeway for southerly winds and do not correct for any existing current, what is the course to steer by standard magnetic compass to make good $068^{\circ}T$?

- (A) 084.5°
- (B) 079.5°
- (C) 054.0°
- (D) 081.0°

If choice A is selected set score to 1.

10. At 2350 the gyro is restored to service. At 0016 the visibility improves. At 0028 you sight Bartlett Reef Light in line with New London Harbor Light bearing $039^{\circ}pgc$. What is the gyro error?

- (A) $4^{\circ}W$
- (B) 0°
- (C) $2^{\circ}W$
- (D) $2^{\circ}E$

If choice D is selected set score to 1.